

This design covers a display case that is substantial, light in weight, can be set up or folded in less than a minute, occupies very little space when folded, may be shipped or stored in a corrugated paper carton, and may be produced economically with the simple tools found in nearly every home workshop. It measures 24 inches front to rear and is 20 inches high at the back, with a sloping glass front. It is provided with simple locking means that will be described later. While it may be made of any length, 42 inches is considered best as it provides an inside floor area of six square feet, is easily handled, and will fit into the trunk of almost any car.

The cost and labor of attaching piano hinges has been eliminated in this design by substituting an exceedingly strong and durable cloth tape of the self-adhering type. Extensive tests were made before this decision was reached. The parts to be hinged together must be clean and dry, and should be placed in their proper relative position on a flat table or floor. They should be pushed tightly together and held in position while the tape is applied and rubbed into firm contact with the wood throughout its length.

For the parts that are rigidly attached, as sides 2 and 3 to the bottom, and resting blocks 14, 15 and 22 to the ends, use one of the modern adhesives such as "Weldwood Contact Cement" or "Epoxy Resin Glue", following the directions supplied by their manufacturers.

The basic lighting makes use of two G.E. 40-watt "Appliance" lamps. These are only 1 3/4" in diameter;-- and as they are used in many electric refrigerators they are readily obtainable at a cost of about 30 cents each. It is usually advisable to install one or two others at locations where they will best illuminate the exhibit. Figure A shows two such extra lights fastened to the bottom of the case, but they could be placed almost anywhere, being held by a single small screw. Each lamp should have a shield 19 to direct the light and protect the eyes of observers. The case is well ventilated, and in a manner that does not show.

The front glass, in its frame or "sash" packs inside the case as shown in Figures D and E where it is fully protected during transportation. While the exhibit is being set up the sash may be placed upright in the back of the case, on the "temporary sash rests" 22. The glass may be either single or double weight window glass.

The two hooks 21 hold the ends and back upright while the exhibit is being arranged.

In Figure B there are shown two small holes in the top 5, each being directly over one of the resting blocks 14. When the case has been finally closed, two 1 1/4" #8 flat head wood screws should be inserted and screwed into the resting blocks. All parts of the case will then be locked against removal, including the front glass in its sash, despite the fact that there are open ventilating spaces above and below it. When not in use for this purpose the two screws should be screwed lightly into one of the resting blocks for safe keeping. These are the only loose parts.

Corner blocks 8 and mullion strips 9 and 10 are made from 3/8" quarter round. The corner blocks are cut with square ends, but the mullion strips should be mitered to fit at the corners, and held in place by 3/4" #2 flat head screws at intervals of 10 or 12 inches.

Dowel pins 16 are for the purpose of holding the end pieces 6 rigidly in place when the case is folded and being moved about. When the resting blocks 14 and 15 have been secured to the end pieces 6, a 1/2" hole should be bored straight through, starting at the center of each of the blocks 15. Later, after the case has been completely

assembled, the two end pieces 6 should be folded down and the holes continued through the bottom 1. Each of the dowel pins should be tapered slightly at one end and pushed down about half way into one of the holes. Their exposed portions should then be coated with glue and they should then be tapped down until their upper ends are flush.

## PARTS LIST.

Part No.	See	Title, Material, Etc.	
No. Req.	Figures	For 24" x 42" Case.	
1 1	A	BOTTOM, $\frac{1}{2}$ " waterproof plywood, 24" wide x 42" long.	
2 2	A	SIDE RAIL, Long, $\frac{1}{2}$ " waterproof plywood, 4" wide x 42" long.	
3 2	A	" " Short, $\frac{1}{2}$ " waterproof plywood, 4" wide x 23" long.	
4 1	A	BACK, $\frac{1}{2}$ " waterproof plywood, 15" wide x 42" long.	
5 1	A	TOP, $\frac{1}{2}$ " " " 8 $\frac{1}{4}$ " " x 42" "	
6 2	A-D-E-H	END, $\frac{1}{2}$ " " " 16 $\frac{3}{4}$ " " x 22 $\frac{3}{4}$ " "	
7 2	A-D	HINGE STRIPS, $\frac{1}{2}$ " waterproof plywood, 2 $\frac{1}{4}$ " wide x 23" long.	
8 4	A-D	CORNER BLOCKS, $\frac{3}{8}$ " quarter round, 2 $\frac{1}{4}$ " long.	
9 2	A-D	MULLION STRIPS, Long, $\frac{3}{8}$ " quarter round, 36 $\frac{1}{4}$ " long.	
10 2	A-D	" " Short, $\frac{3}{8}$ " " " 20 $\frac{1}{4}$ " "	
11 2	A-D	SASH, Long strips, $\frac{1}{2}$ " waterproof plywood, 1 $\frac{1}{2}$ " wide x 39 $\frac{3}{4}$ " long.	
11-a 2	A-D	" " " $\frac{1}{2}$ " " " 1" " x 36 $\frac{1}{4}$ " " "	
12 2	A-D	" Short " $\frac{1}{2}$ " " " 2 $\frac{1}{4}$ " " x 19 $\frac{1}{4}$ " " "	
12-a 2	A-D	" " " $\frac{1}{2}$ " " " 1 $\frac{3}{4}$ " " x 22 $\frac{1}{4}$ " " "	
13 1	A-B-D	GLASS, Single or double weight window, 20" " x 36" "	
14* 4	A-D-F	RESTING BLOCK, 1 $\frac{1}{8}$ " x 1 $\frac{1}{2}$ " x 5 $\frac{1}{2}$ " long.	
15* 2	A-D-F	" " 1 $\frac{1}{8}$ " x 1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " "	
16 2	A-D-E-G	DOWEL PIN, $\frac{1}{2}$ " dowel stock, 3 $\frac{1}{4}$ " long.	
17 4	A-D-E	LAMP, G.E. 40-watt "Appliance" (Used in refrigerators).	
18 4	A-D-E	LAMP SOCKET, Leviton #3352-F, Type 4-52, Lampholder.	
19 4	K	LAMP SHIELD, Not a commercial item.	
20 4	A	TAPE, Black Wizard #275, 1 $\frac{1}{2}$ " wide, black.	
21 2	A-J	HOOK, Not a commercial item.	
22* 2	A-D-F	TEMPORARY SASH REST, 1 $\frac{1}{8}$ " x 1 $\frac{1}{2}$ " x 4".	

(\*) Parts 14, 15 and 22 should be made of clear white pine, spruce, fir, hemlock or redwood.

While most of the items listed above are obtainable in any quantity and in any locality, some of them are not. The lamp sockets (18) may not be carried in stock by retailers in some areas, and if only one or two cases were to be built you would not wish to buy a 60-yard roll of tape. Then again, while the woodwork may be no problem, you may not be equipped to make the metal parts. For your convenience, therefore, any or all of the items listed below will be sent postpaid on receipt of check or money order.

Item 18, 4 lamp sockets, with screws,	\$1.50
" 19, 4 lamp guards,	1.50
" 20, 25 feet, self adhering tape,	.75
" 21, 2 special hooks, with screw eyes,	1.75
	<u>5.50</u>

All four items on one order 4.50

KITS, Comprising wood parts cut to size, together with metal and plastic parts, in carton large enough to hold the finished case (purchaser to supply the glass, lamps, glue, paint, wiring and labor of assembling) in lots of 10, f.o.b. Morristown, N. J., \$19.75 each.

Drawings and specifications, extra, per set, postpaid, \$2.00

KITS, as above, in lots of less than 10, f.o.b. Morristown, N. J., 21.75 each.

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The front glass, in its frame or "sash" packs inside the case as shown in Figures D and E where it is fully protected during transportation. While the exhibit is being set up the sash may be placed upright in the back of the case, on the "temporary sash rests" 22. The glass may be either single or double weight window glass.

The two hooks 21 hold the ends and back upright while the exhibit is being arranged.

In Figure B there are shown two small holes in the top 5, each being directly over one of the resting blocks 14. When the case has been finally closed, two 1 1/4" #8 flat head wood screws should be inserted and screwed into the resting blocks. All parts of the case will then be locked against removal, including the front glass in its sash, despite the fact that there are open ventilating spaces above and below it. When not in use for this purpose the two screws should be screwed lightly into one of the resting blocks for safe keeping. These are the only loose parts.

Corner blocks 8 and mullion strips 9 and 10 are made from 3/8" quarter round. The corner blocks are cut with square ends, but the mullion strips should be mitered to fit at the corners, and held in place by 3/4" #2 flat head screws at intervals of 10 or 12 inches.

Dowel pins 16 are for the purpose of holding the end pieces 6 rigidly in place when the case is folded and being moved about. When the resting blocks 14 and 15 have been secured to the end pieces 6, a 1/2" hole should be bored straight through, starting at the center of each of the blocks 15. Later, after the case has been completely



assembled, the two end pieces 6 should be folded down and the holes continued through the bottom 1. Each of the dowel pins should be tapered slightly at one end and pushed down about half way into one of the holes. Their exposed portions should then be coated with glue and they should then be tapped down until their upper ends are flush.

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5	1	A	TOP, $\frac{1}{2}$ " " " 8 $\frac{1}{4}$ " " x 42" "
6	2	A-D-E-H	END, $\frac{1}{2}$ " " " 16 $\frac{3}{4}$ " " x 22 $\frac{3}{4}$ " "
7	2	A-D	HINGE STRIPS, $\frac{1}{2}$ " waterproof plywood, 2 $\frac{1}{4}$ " wide x 23" long.
8	4	A-D	CORNER BLOCKS, $\frac{3}{8}$ " quarter round, 2 $\frac{1}{4}$ " long.
9	2	A-D	MULLION STRIPS, Long, $\frac{3}{8}$ " quarter round, 36 $\frac{1}{4}$ " long.
10	2	A-D	" " Short, $\frac{3}{8}$ " " " 20 $\frac{1}{4}$ " "
11	2	A-D	SASH, Long strips, $\frac{1}{2}$ " waterproof plywood, 1 $\frac{1}{2}$ " wide x 39 $\frac{3}{4}$ " long.
11-a	2	A-D	" " " " " 1" " x 36 $\frac{1}{4}$ " " "
12	2	A-D	" Short " " " 2 $\frac{1}{4}$ " " x 19 $\frac{1}{4}$ " " "
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13	1	A-B-D	GLASS, Single or double weight window, 20" " x 36" "
14*	4	A-D-F	RESTING BLOCK, 1 $\frac{1}{8}$ " x 1 $\frac{1}{2}$ " x 5 $\frac{1}{2}$ " long.
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18	4	A-D-E	LAMP SOCKET, Leviton #3352-F, Type 4-52, Lampholder.
19	4	K	LAMP SHIELD, Not a commercial item.
20	4	A	TAPE, Black Wizard #275, 1 $\frac{1}{2}$ " wide, black.
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22*	2	A-D-F	TEMPORARY SASH REST, 1 $\frac{1}{8}$ " x 1 $\frac{1}{2}$ " x 4".

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6	2	A-D-E-H	END, $\frac{1}{2}$ " " " 16 3/4" " x 22 3/4" "
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11	2	A-D	SASH, Long strips, $\frac{1}{2}$ " waterproof plywood, 1 $\frac{1}{2}$ " wide x 39 3/4" long.
11-a	2	A-D	" " " " 1" " x 36 1/4" " .
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11-a	2	A-D	" " " " 1" " x 36 $\frac{1}{4}$ " " "
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13	1	A-B-D	GLASS, Single or double weight window, 20" " x 36" "
14*	4	A-D-F	RESTING BLOCK, 1 $\frac{1}{8}$ " x 1 $\frac{1}{2}$ " x 5 $\frac{1}{2}$ " long.
15*	2	A-D-F	" " 1 $\frac{1}{8}$ " x 1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " "
16	2	A-D-E-G	DOWEL PIN, $\frac{1}{2}$ " dowel stock, 3 $\frac{1}{4}$ " long.
17	4	A-D-E	LAMP, G.E. 40-watt "Appliance" (Used in refrigerators).
18	4	A-D-E	LAMP SOCKET, Leviton #3352-F, Type 4-52, Lampholder.
19	4	K	LAMP SHIELD, Not a commercial item.
20	4	A	TAPE, Black Wizard #275, 1 $\frac{1}{2}$ " wide, black.
21	2	A-J	HOOK, Not a commercial item.
22*	2	A-D-F	TEMPORARY SASH REST, 1 $\frac{1}{8}$ " x 1 $\frac{1}{2}$ " x 4".

(\*) Parts 14, 15 and 22 should be made of clear white pine, spruce, fir, hemlock or redwood.

While most of the items listed above are obtainable in any quantity and in any locality, some of them are not. The lamp sockets (18) may not be carried in stock by retailers in some areas, and if only one or two cases were to be built you would not wish to buy a 60-yard roll of tape. Then again, while the woodwork may be no problem, you may not be equipped to make the metal parts. For your convenience, therefore, any or all of the items listed below will be sent postpaid on receipt of check or money order.

Item 18, 4 lamp sockets, with screws,	\$1.50
" 19, 4 lamp guards,	1.50
" 20, 25 feet, self adhering tape,	.75
" 21, 2 special hooks, with screw eyes,	1.75
	<u>5.50</u>

All four items on one order 4.50

KITS, Comprising wood parts cut to size, together with metal and plastic parts, in carton large enough to hold the finished case (purchaser to supply the glass, lamps, glue, paint, wiring and labor of assembling) in lots of 10, f.o.b. Morristown, N. J., \$19.75 each.

Drawings and specifications, extra, per set, postpaid, \$2.00

KITS, as above, in lots of less than 10, f.o.b. Morristown, N. J., 21.75 each.

Drawings and specifications, extra, per set, postpaid, 2.00

Drawings and specifications alone, per set, postpaid, 2.00

Louis Eaton Shaw, 28 High Street, Glen Ridge, N.J. April, 1961.



LOUIS EATON SHAW  
CONSULTANT  
ENGINEERING RESEARCH  
AND DEVELOPMENT

TEL. PI 3-5595

28 HIGH STREET  
GLEN RIDGE, N. J.

27 May 1961.

Mrs. Maurice Tracy, Secretary,  
Lincoln Gem and Mineral Club, Inc.,  
3601 South Street,  
Lincoln, Nebraska.

Dear Mrs. Tracy:-

In response to your letter of the 24th:--

A set of drawings and specifications of the  
Display case will be mailed to you today.

The charge is \$2.00 for the above, which you may send  
at your convenience.

I think you will find all the information you need  
in the specifications. If not, please write to me.

Sincerely yours,

*Louis Eaton Shaw*

Louis Eaton Shaw.